

500,000

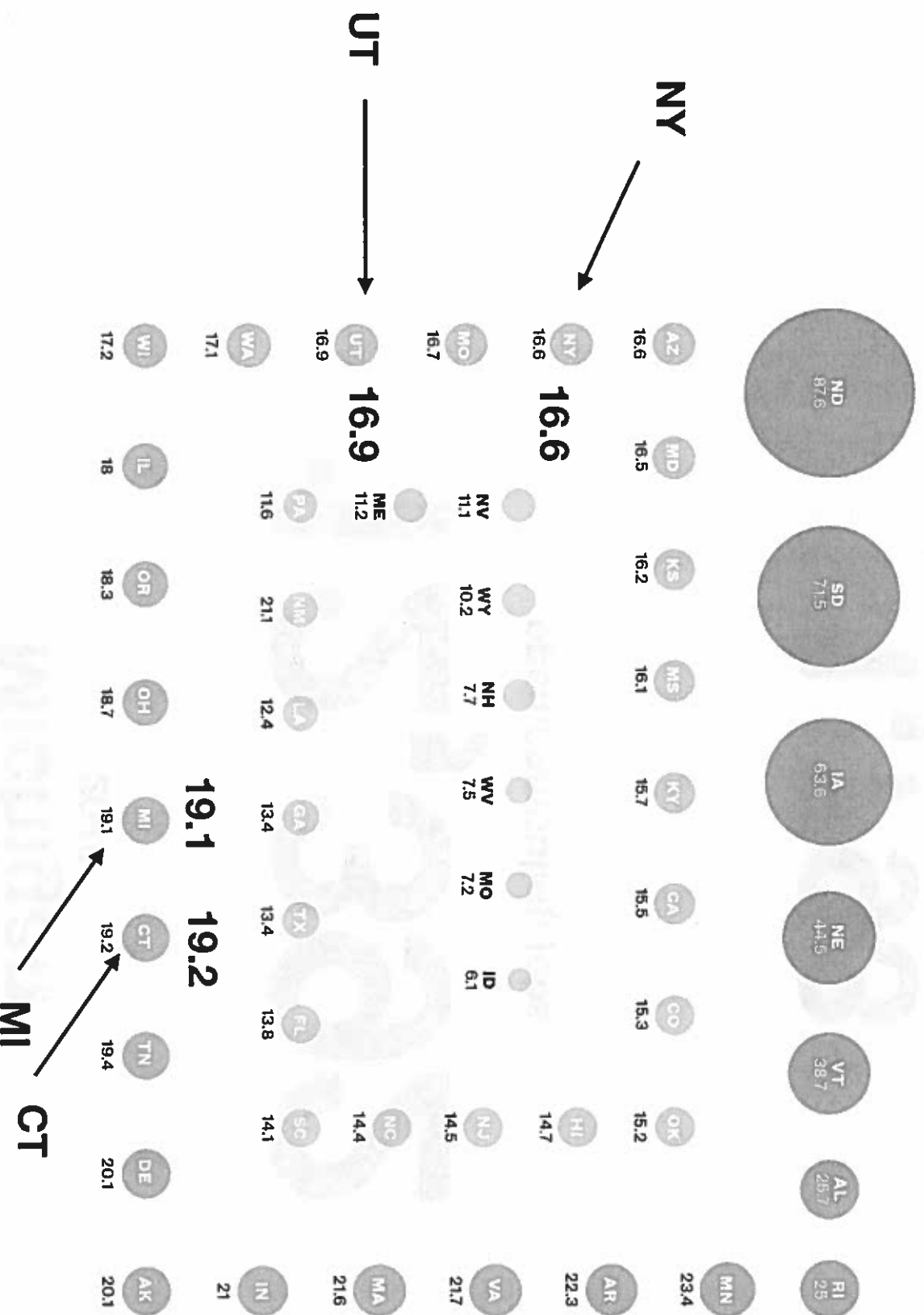
2.2M

by 2020

Source: National Institute of Standards and Technology.

NUMBER OF STEM JOBS ADVERTISED ONLINE FOR EACH UNEMPLOYED STEM WORKER, BY STATE, 2015

newamericaneconomy.org



Michigan

2015

12,392

open computing jobs

1,793

computer science graduates

SKILLS 5,000,000 jobs GAP





Al and Automation

in the next 20 years

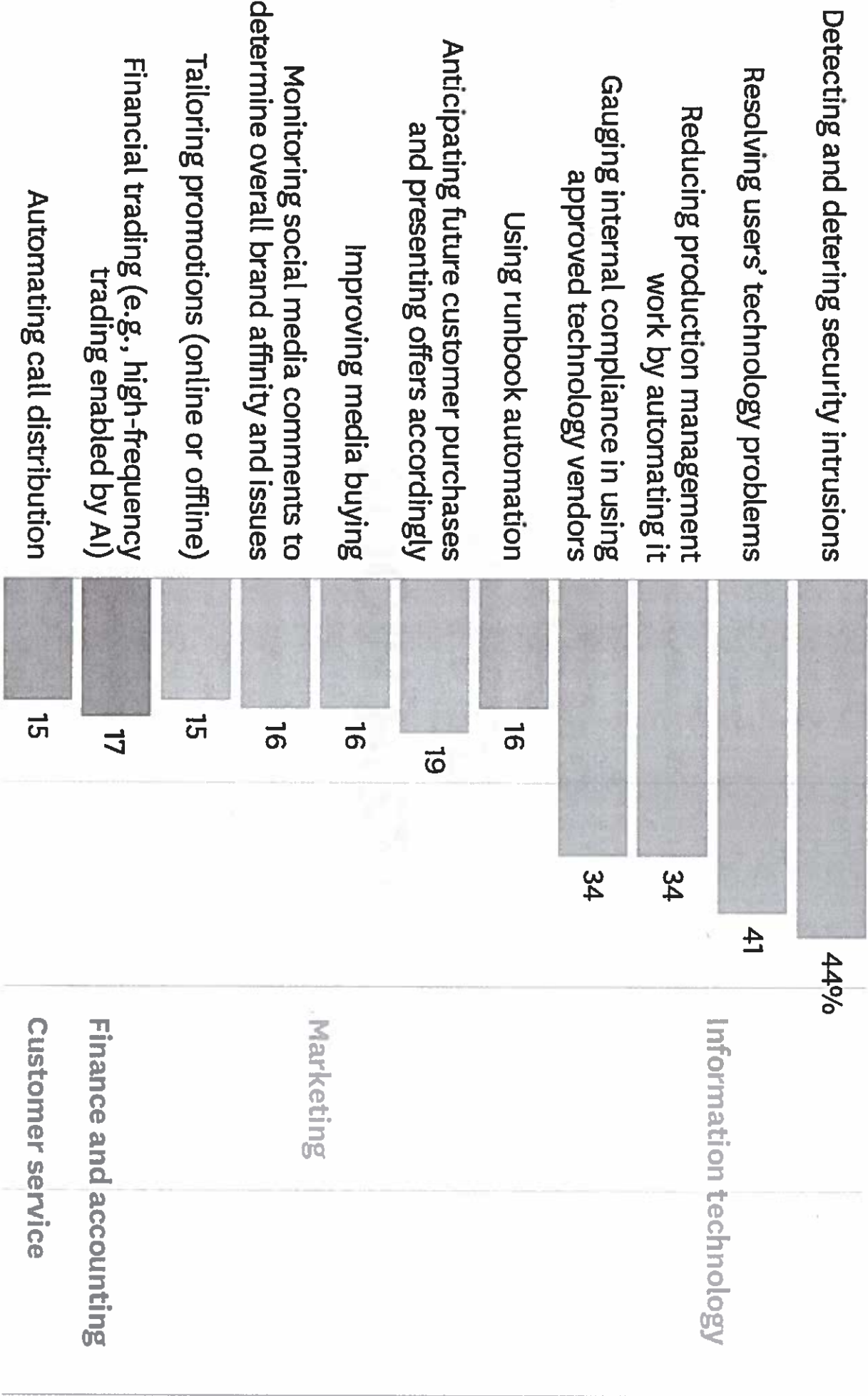
47%

Oxford University

ZOOM PIZZA AMAZON NEWS

How Companies Around the World Are Using Artificial Intelligence

IT activities are the most popular.



21st Century Economic CRISIS

<re/code>

rural students urban students students of poverty

girls

who is at risk

students of color

(Hispanics and African-Americans)

Two sides, with no middle:

- 1. part of the problem**
- 2. part of the solution**

SO

how do we fix it.

**Start in the early
grades**

PERSONALIZED

STEM IMMERSION

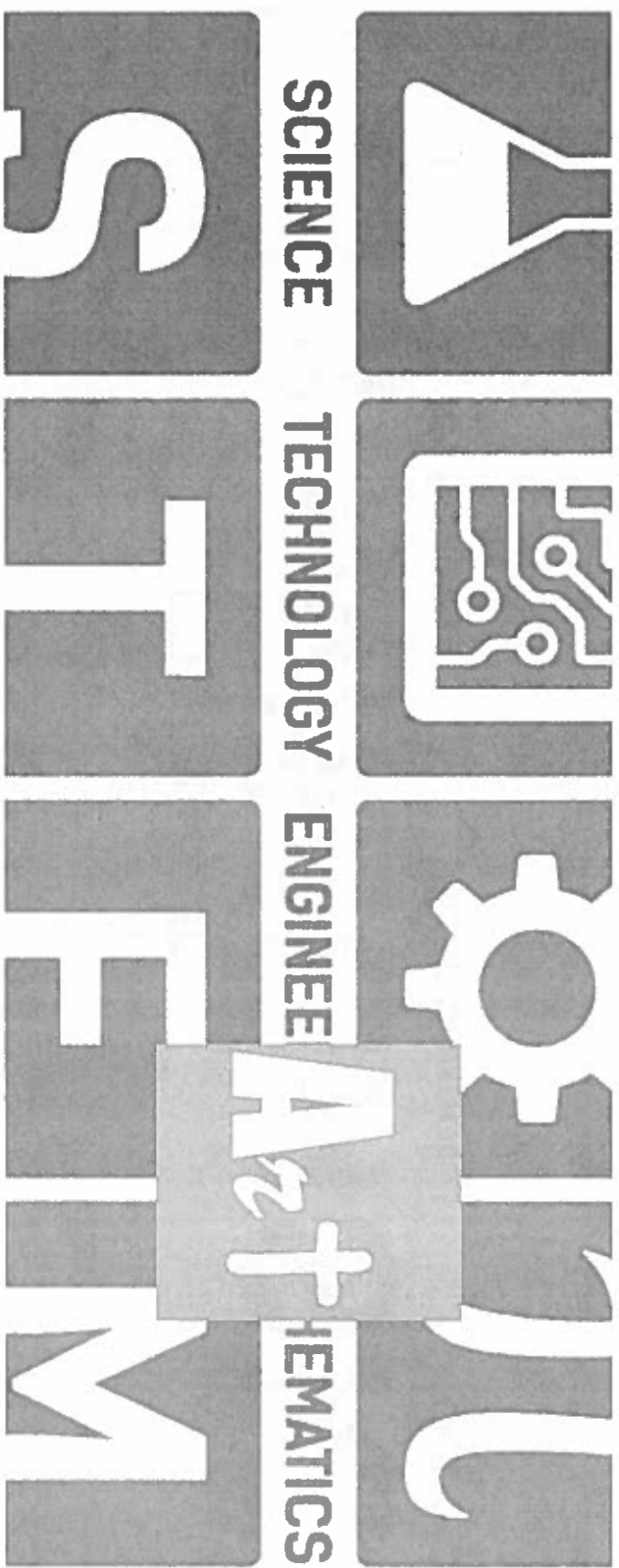
Project-based

In School

After School

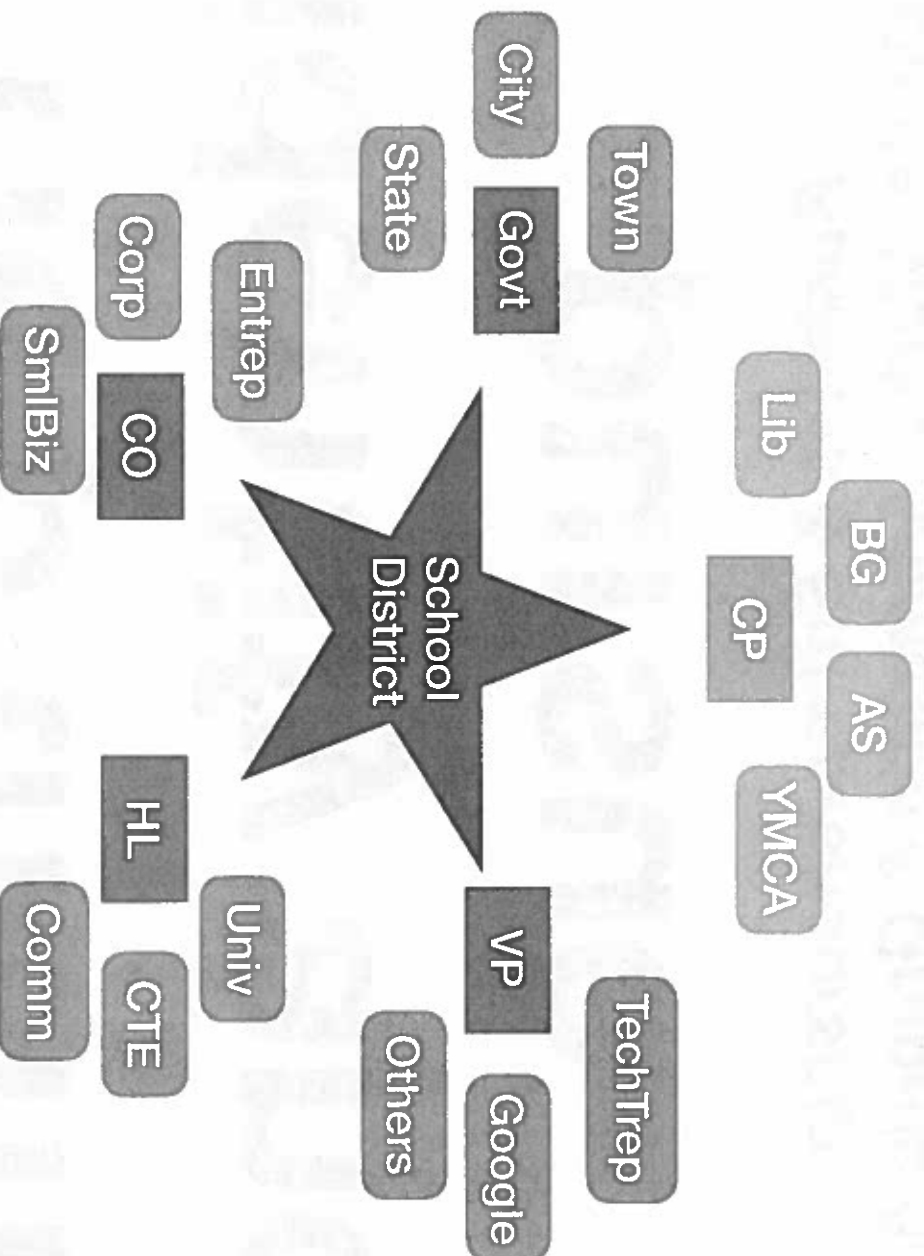
Out of School

A
Comprehensive



education ecosystem

COLLECTIVE IMPACT



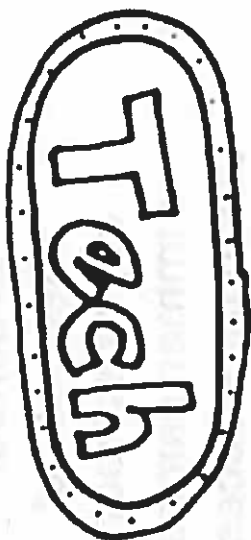
Help them identify and pursue

Business & Entrepreneurship

Digital Media, Animation & Graphic Arts

Programming, Coding and Gaming

Robotics & Engineering



ENTREPRENEURS

18 STEM courses per license

project-based

no STEM certification required

just mentors/coaches

self-paced

personalized

built-in curriculum & lesson plans

no grades (or pass/fail)

in school

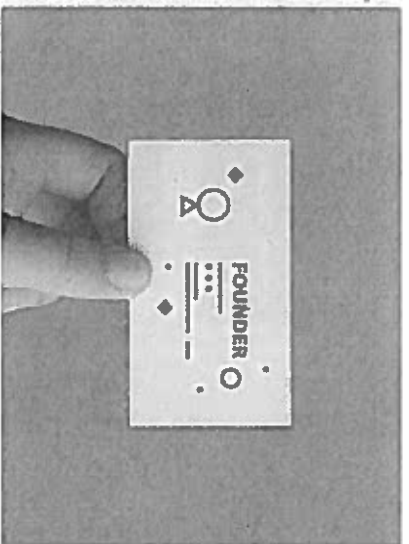
after-school

out of school

summer camps

ubiquitous access!

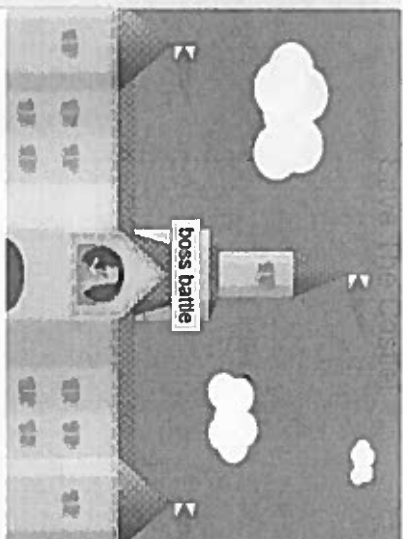
******showcase day/night******



BECOME A TREP

SEE DETAILS

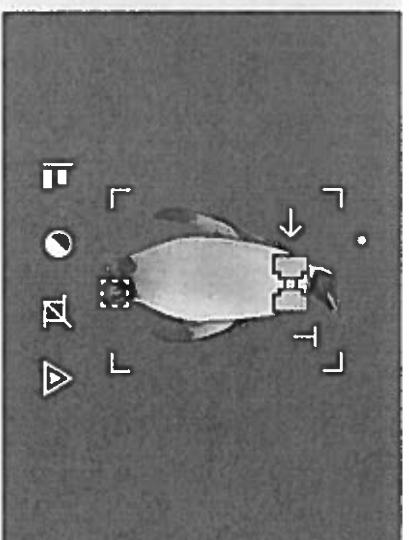
Level: **Ages 8+** Estimated Duration: 15-20 weeks



BROWSER GAME PROGRAMMING WITH JAVASCRIPT

SEE DETAILS

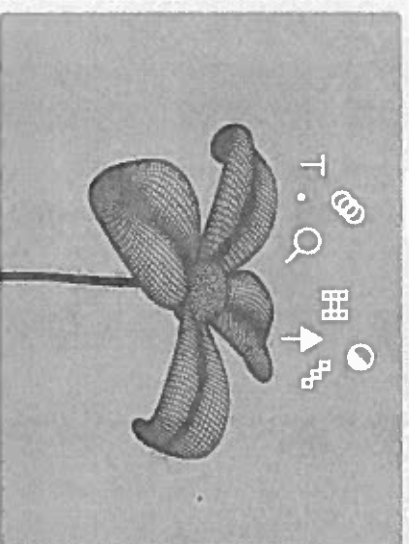
Level: **Ages 11+** Estimated Duration: 15-20 weeks



DIGITAL MEDIA EDITING AND GRAPHIC DESIGN

SEE DETAILS

Level: **Ages 11+** Estimated Duration: 15-20 weeks



3D DESIGN AND ANIMATION

SEE DETAILS

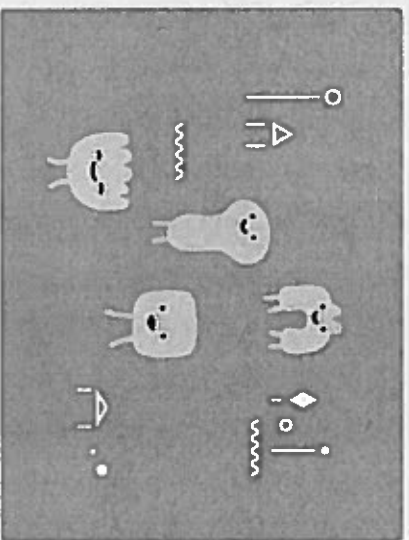
Level: **Ages 11+** Estimated Duration: 15-20 weeks



3D PRINTING AND DESIGN

SEE DETAILS

Level: **Ages 11+** Estimated Duration: 15-20 weeks

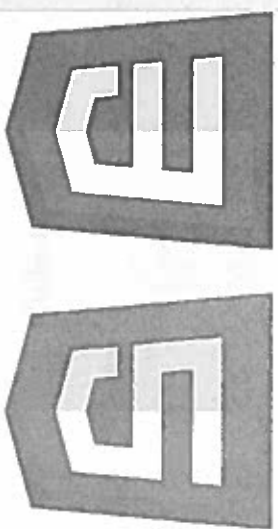


BECOME A DIGITAL ARTIST

SEE DETAILS

Level: **Ages 11+** Estimated Duration: 15-20 weeks

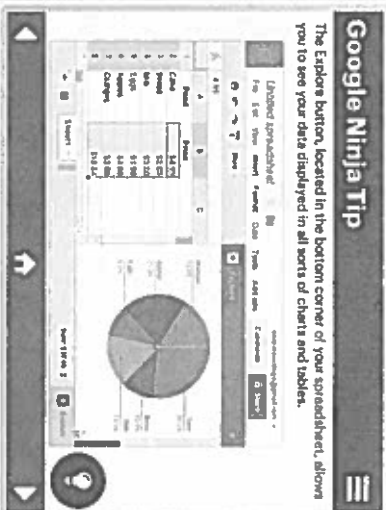
CSS HTML



INTRO TO WEB DEVELOPMENT

SEE DETAILS

Level: **Ages 11+** Estimated Duration: 15-20 weeks



The Explore button, located in the bottom corner of your spreadsheet, allows you to see your data displayed in all sorts of charts and tables.

GOOGLE NINJA

SEE DETAILS

Level: **Ages 11+** Estimated Duration: 15-20 weeks



DRAWING, SCULPTING AND STOP-MOTION ANIMATION

SEE DETAILS

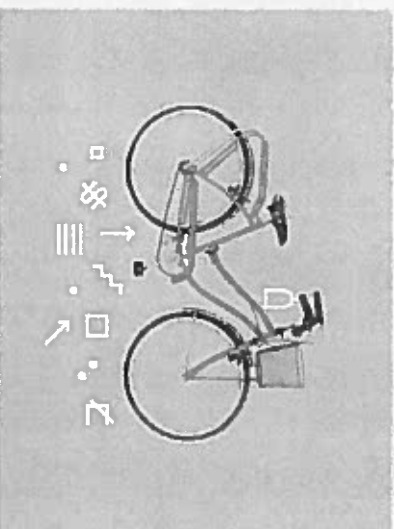
Level: **Ages 8+** Estimated Duration: 15-20 weeks



DRONE VIDEOGRAPHY

SEE DETAILS

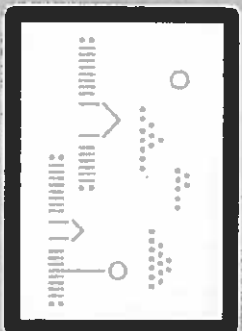
Level: **Ages 11+** Estimated Duration: 15-20 weeks



FINANCIAL LITERACY FOR YOUTH

SEE DETAILS

Level: **Ages 11+** Estimated Duration: 15-20 weeks



PROGRAMMING FOUNDATIONS

SEE DETAILS

Level: **Ages 8+** Estimated Duration: 15-20 weeks



ROBOTICS FOUNDATIONS LEGO WEDO 2.0

SEE DETAILS

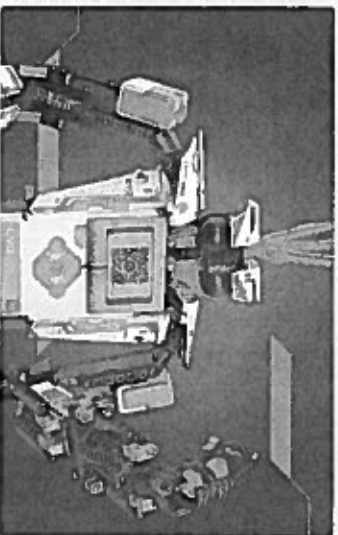
Level: **Ages 8+** Estimated Duration: 15-20 weeks



SOUND AND AUDIO MIXING

SEE DETAILS

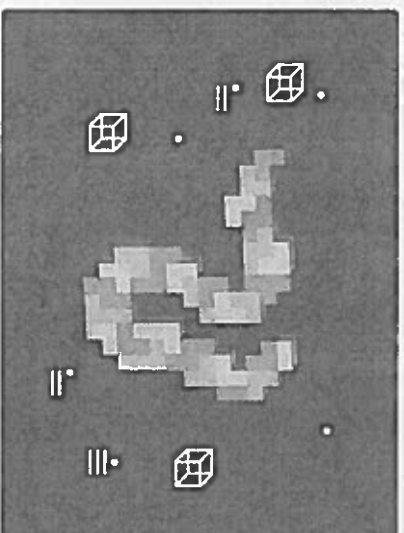
Level: **Ages 11+** Estimated Duration: 15-20 weeks



LEGO ROBOTICS EV3

SEE DETAILS

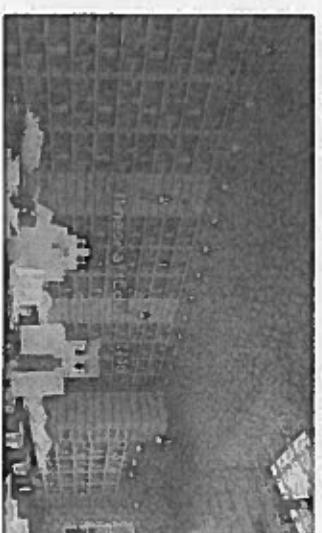
Level: **Ages 11+** Estimated Duration: 15-20 weeks



MINECRAFT MODDING WITH JAVA

SEE DETAILS

Level: **Ages 11+** Estimated Duration: 15-20 weeks



MINECRAFT STEAM FOUNDATIONS

SEE DETAILS

Level: **Ages 8+** Estimated Duration: 15-20 weeks

